

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston

6310 Rothway Street

Houston, TX 77040

Tel: (713)690-4444

TestAmerica Job ID: 600-107953-2

Client Project/Site: 16 Base Liq TCLP VOA

For:

CB&I Federal Services LLC

10777 Westheimer Road

Suite 170

Houston, Texas 77042

Attn: Leroy Cassidey

*Dean A. Joiner*

Authorized for release by:

3/31/2015 4:56:23 PM

Dean Joiner, Project Manager II

(713)690-4444

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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## Case Narrative

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

**Job ID: 600-107953-2**

**Laboratory: TestAmerica Houston**

### Narrative

#### Job Narrative 600-107953-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/11/2015 12:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5° C and 1.7° C.

#### GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: (600-107953-3), (600-107953-3 MS), 16 Base LIQ (600-107953-3). Ph of sample was 14. Samples with ph >10 historically resilt with low and sometimes no recovery for dibromofluoromethane surrogate, therefore, re-analysis was not performed.

Method(s) 8260B: The laboratory control sample (LCS) for batch 137027 recovered outside control limits for the following analyte: 1,1-dichloroethene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The matrix spike recoveries for batch 107027 was outside control limits for 1,1-dichloroethene bias high. . The analyte was not detected in parent sample.

Method(s) 8260B: Internal standard (ISTD) response for TBA d9 for the following sample(s) was outside acceptance criteria: (600-107953-3), (600-107953-3 MS), 16 Base LIQ (600-107953-3). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

The pH in sample(s) 12 Acid OXI (600-107953-2) could not be verified due to matrix interference.

The TSS analysis is not appropriate for this sample matrix due to the samples being waste. Therefore, it was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Geotechnical

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Method Summary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Sample Summary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-107953-3	16 Base LIQ	Waste	03/11/15 10:01	03/11/15 12:42

# Client Sample Results

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

**Client Sample ID: 16 Base LIQ**

**Lab Sample ID: 600-107953-3**

**Date Collected: 03/11/15 10:01**

**Matrix: Waste**

**Date Received: 03/11/15 12:42**

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0396	U H	0.200	0.0396	mg/L			03/31/15 12:31	1
<b>2-Butanone (MEK)</b>	<b>1.42</b>	<b>H F1</b>	0.200	0.0434	mg/L			03/31/15 12:31	1
Carbon tetrachloride	0.0433	U H	0.200	0.0433	mg/L			03/31/15 12:31	1
Chlorobenzene	0.0210	U H	0.200	0.0210	mg/L			03/31/15 12:31	1
Chloroform	0.0403	U H	0.200	0.0403	mg/L			03/31/15 12:31	1
1,2-Dichloroethane	0.0384	U H	0.200	0.0384	mg/L			03/31/15 12:31	1
1,1-Dichloroethene	0.0426	U H * F1	0.200	0.0426	mg/L			03/31/15 12:31	1
Tetrachloroethene	0.0330	U H	0.200	0.0330	mg/L			03/31/15 12:31	1
Trichloroethene	0.0320	U H F1	0.200	0.0320	mg/L			03/31/15 12:31	1
Vinyl chloride	0.0516	U H	0.200	0.0516	mg/L			03/31/15 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 120		03/31/15 12:31	1
Dibromofluoromethane (Surr)	68	X	80 - 120		03/31/15 12:31	1
1,2-Dichloroethane-d4 (Surr)	88		62 - 123		03/31/15 12:31	1
Toluene-d8 (Surr)	84		80 - 120		03/31/15 12:31	1

## Definitions/Glossary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Surrogate Summary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-120)	DBFM (80-120)	12DCE (62-123)	TOL (80-120)
LB 600-158829/1-A	Method Blank	94	101	104	110
LCS 180-137027/14	Lab Control Sample	103	110	100	99

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: TCLP

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-120)	DBFM (80-120)	12DCE (62-123)	TOL (80-120)
600-107953-3	16 Base LIQ	86	68 X	88	84
600-107953-3 MS	16 Base LIQ	102	62 X	107	96

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)



# QC Sample Results

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB 600-158829/1-A

Matrix: Waste

Analysis Batch: 137027

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00989	U	0.0500	0.00989	mg/L			03/31/15 10:46	1
2-Butanone (MEK)	0.0108	U	0.0500	0.0108	mg/L			03/31/15 10:46	1
Carbon tetrachloride	0.0108	U	0.0500	0.0108	mg/L			03/31/15 10:46	1
Chlorobenzene	0.00526	U	0.0500	0.00526	mg/L			03/31/15 10:46	1
Chloroform	0.0101	U	0.0500	0.0101	mg/L			03/31/15 10:46	1
1,2-Dichloroethane	0.00959	U	0.0500	0.00959	mg/L			03/31/15 10:46	1
1,1-Dichloroethene	0.0107	U	0.0500	0.0107	mg/L			03/31/15 10:46	1
Tetrachloroethene	0.00825	U	0.0500	0.00825	mg/L			03/31/15 10:46	1
Trichloroethene	0.00801	U	0.0500	0.00801	mg/L			03/31/15 10:46	1
Vinyl chloride	0.0129	U	0.0500	0.0129	mg/L			03/31/15 10:46	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		03/31/15 10:46	1
Dibromofluoromethane (Surr)	101		80 - 120		03/31/15 10:46	1
1,2-Dichloroethane-d4 (Surr)	104		62 - 123		03/31/15 10:46	1
Toluene-d8 (Surr)	110		80 - 120		03/31/15 10:46	1

Lab Sample ID: LCS 180-137027/14

Matrix: Waste

Analysis Batch: 137027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.400	0.3901		mg/L		98	80 - 120
2-Butanone (MEK)	0.400	0.3774		mg/L		94	31 - 139
Carbon tetrachloride	0.400	0.5013		mg/L		125	63 - 139
Chlorobenzene	0.400	0.3930		mg/L		98	83 - 120
Chloroform	0.400	0.4049		mg/L		101	77 - 119
1,2-Dichloroethane	0.400	0.3771		mg/L		94	63 - 140
1,1-Dichloroethene	0.400	0.7241	*	mg/L		181	69 - 127
Tetrachloroethene	0.400	0.3927		mg/L		98	78 - 126
Trichloroethene	0.400	0.4009		mg/L		100	80 - 120
Vinyl chloride	0.400	0.2762		mg/L		69	57 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		75 - 120
Dibromofluoromethane (Surr)	110		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		62 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 600-107953-3 MS

Matrix: Waste

Analysis Batch: 137027

Client Sample ID: 16 Base LIQ

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0396	U H	1.60	1.655		mg/L		103	80 - 120
2-Butanone (MEK)	1.42	H F1	1.60	3.999	F1	mg/L		161	31 - 139
Carbon tetrachloride	0.0433	U H	1.60	2.027		mg/L		127	63 - 139

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-107953-3 MS

Matrix: Waste

Analysis Batch: 137027

Client Sample ID: 16 Base LIQ

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	0.0210	U H	1.60	1.643		mg/L		103	83 - 120
Chloroform	0.0403	U H	1.60	1.757		mg/L		110	77 - 119
1,2-Dichloroethane	0.0384	U H	1.60	1.731		mg/L		108	63 - 140
1,1-Dichloroethene	0.0426	U H * F1	1.60	4.718	F1	mg/L		295	69 - 127
Tetrachloroethene	0.0330	U H	1.60	1.636		mg/L		102	78 - 126
Trichloroethene	0.0320	U H F1	1.60	2.864	F1	mg/L		179	80 - 120
Vinyl chloride	0.0516	U H	1.60	1.059		mg/L		66	57 - 128
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		75 - 120						
Dibromofluoromethane (Surr)	62	X	80 - 120						
1,2-Dichloroethane-d4 (Surr)	107		62 - 123						
Toluene-d8 (Surr)	96		80 - 120						

## QC Association Summary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

### GC/MS VOA

#### Leach Batch: 136871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-3	16 Base LIQ	TCLP	Waste	1311	
600-107953-3 MS	16 Base LIQ	TCLP	Waste	1311	

#### Analysis Batch: 137027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-107953-3	16 Base LIQ	TCLP	Waste	8260B	136871
600-107953-3 MS	16 Base LIQ	TCLP	Waste	8260B	136871
LB 600-158829/1-A	Method Blank	Total/NA	Waste	8260B	
LCS 180-137027/14	Lab Control Sample	Total/NA	Waste	8260B	

Lab Chronicle

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

**Client Sample ID: 16 Base LIQ**  
**Date Collected: 03/11/15 10:01**  
**Date Received: 03/11/15 12:42**

**Lab Sample ID: 600-107953-3**  
**Matrix: Waste**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	136871	03/29/15 11:52	SLM	TAL PIT
TCLP	Analysis	8260B		1	0.125 mL	5 mL	137027	03/31/15 12:31	PJJ	TAL PIT

**Laboratory References:**  
TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Certification Summary

Client: CB&I Federal Services LLC  
Project/Site: 16 Base Liq TCLP VOA

TestAmerica Job ID: 600-107953-2

## Laboratory: TestAmerica Houston

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704223	10-31-15

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-15 *
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	04-30-15 *
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15 *
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15 *
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-15 *
South Carolina	State Program	4	89014	04-30-15 *
Texas	NELAP	6	T104704528	03-31-16
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-15

\* Certification renewal pending - certification considered valid.

TestAmerica Houston

6310 Rothway Street  
Houston, TX 77040  
Phone (713) 690-4444 Fax (713) 690-5646

600-107953 Chain of Custody

600-107953 Chain of Custody

THE LEADER OF THE ROYAL CANADIAN MOUNTED POLICE

[illegible]

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14 13 12 11 10 9 8 7 6 5 4 3 2 1



Sample Received Loc: 600  
107953

/Time Received.

JOB NUMBER.

CLIENT

UNPACKED BY:

CARRIER/DRIVER

Custody Seal Present:

☐ YES☒ NO

Number of Coolers Received:

2

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
WH/BC	Y / N	Y / N	1.6	600	-1	1.5
WH/RD	Y / N	Y / N	1.8	600	-1	1.7
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☐ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NO

Acid preserved are &lt;pH 2:

☐ YES ☐ NO

pH paper Lot #:

VOA headspace acceptable (5-6mm): ☒ YES ☐ NO ☐ NA

YES NO

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

COMMENTS:

COC UNCLEAR ABOUT PRESERVATION

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-2

**Login Number: 107953**

**List Source: TestAmerica Houston**

**List Number: 1**

**Creator: Crafton, Tommie S**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5 1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-2

Login Number: 107953

List Number: 6

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 03/14/15 01:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-107953-2

Login Number: 107953

List Number: 10

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 03/28/15 02:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	